

ANOMIA PECTEN LINNAEUS, 1758 (BRACHIOPODA): PROPOSED
USE OF THE PLENARY POWERS TO SET ASIDE THE RULING GIVEN
IN OPINION 224 ON THE INTERPRETATION OF THIS SPECIES.
Z.N.(S.) 1832

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The object of the present application is to ask the International Commission on Zoological Nomenclature to use its plenary powers to suppress its direction (Opinion 224, 1954) that the *Coolinia* species figured by Dalman, 1828, should be identified as *Coolinia pecten* (Linnaeus, 1758) as there are strong indications that the species figured by Dalman is specifically and temporally separated from *Coolinia pecten* as generally understood and as represented by Linnaeus's holotype. Although there is no neotype the case is analogous to the case considered in International Code of Zoological Nomenclature, 1961, Article 75 (f), Particulars of this case are set out in the following paragraphs.

2. The trivial name *pecten* Linnaeus, 1758 (originally published in the binominal combination *Anomia pecten*) was referred by Linnaeus to a description and figure in Lister (1678).

3. In 1828 Dalman reported *Orthis pecten* from Gotland (Silurian), Västergötland (Ashgillian) and Östergötland (probably Ashgillian). He also figured the "species" (Pl. 1, fig. 6 a-d).

4. Hede in different papers, e.g. in 1921 and 1960, reported *Schuchertella* (or *Chilidiopsis*) *pecten* (Linnaeus) in faunal lists from the Silurian (Upper Visby Marlstone to Slite Group, i.e. Upper Llandovery to Wenlock) of Gotland.

5. The concept of *pecten* was reviewed by Wood (1947), who made a proposal to the International Commission on Zoological Nomenclature that the trivial name *pecten* Linnaeus, 1758, should be applied to the Silurian brachiopod generally identified as *Schuchertella pecten* and not to the species figured by Lister (1678), which was shown to be a Carboniferous lamellibranch, known as *Pterinopecten papyraceus* (Sowerby, 1822).

6. The International Commission on Zoological Nomenclature at its 14th Meeting during the XIIIth International Congress of Zoology in Paris, 1948 (1950, *Bull. zool. Nomencl.* 4, pp. 435-436) used its plenary powers to direct that the trivial name *pecten* Linnaeus, 1758, should apply to the species "commonly known as *Strophomena pecten* (Linnaeus, 1758), i.e. the species determined as *Schellwienella pecten* (Linnaeus, 1758) by Dalman (J. W.), 1828, K. svenska Vetensk. Akad. Handl., 1827: 110 pl. 1, figs. 6a-d (as *Orthis pecten*)."

7. The brachiopods in the Linnaean Collection were revised by Brunton, Cocks & Dance (1967). In the Collection there is according to the writers a single specimen of *Coolinia pecten* (Linnaeus, 1758), the holotype, which was figured (Pl. 1, figs. 22-26). On the label there is no notation about the locality, but it seems to be fairly sure that the specimen was collected in Gotland.

8. During the preparation of a forthcoming paper on Ashgillian brachiopods from Sweden I have become aware that Dalman's Västergötland collections (partly with his own labels) in Stockholm include a large number of

specimens of a *Coolinia* species from the Ashgillian Dalmanitina Beds. These specimens are preserved as moulds. Among Dalman's figures at least one (1828, Pl. 1, fig. 6b) and almost certainly also the others are of specimens preserved as moulds. It is, however, very unlikely that any mould specimens have ever been collected in Gotland. It is thus fairly certain that Dalman's figures are of the above-mentioned Ashgillian *Coolinia* species and not of *Coolinia pecten* as typified by the Silurian holotype. This conclusion is supported by the striking similarity between Dalman's figures and the Ashgillian *Coolinia* species.

9. Thus there is at present (1) the holotype of *Anomia pecten*, apparently from the Silurian of Gotland; (2) the ICZN direction that the species figured by Dalman from the Ordovician of Västergötland should be regarded as *Anomia pecten*.

10. In the light of the considerations advanced in the present application, the International Commission on Zoological Nomenclature is asked to use its plenary powers:

- (1) to withdraw the direction, in Opinion 224, that the species figured by J. W. Dalman, 1828, *K. svenska Vetensk. Acad. Handl.*, 1827 : 110, Pl. 1, figs. 6a–d, should be identified as *Anomia pecten* Linnaeus, 1758;
- (2) to apply the trivial name *pecten* Linnaeus, 1758, to the species represented by the holotype of *A. pecten* Linnaeus, 1758, figured in Brunton, Cocks & Dance, 1967, *Proc. Linn. Soc. Lond.*, 178 (2) : 166–167, Pl. 1, figs. 22–26.

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